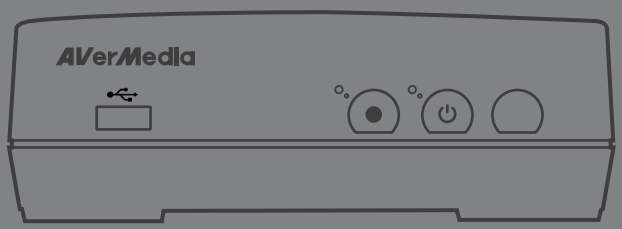
圓剛 AVerMedia®

Game Capture HD / HD錄影盒

C281



English
繁體中文
Русский
Deutsch
Español
Canadien Français

User Manual

Safety Precautions

Please read all of the safety precautions before using the product.

The following symbols are used to indicate important information:

CAUTION:

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the documentations accompanying the appliance.

WARNING:

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

Precautions on Power

- Do not plug too many devices into a socket. It may cause an overload and result in an electric shock or fire.
- Do not touch the plug with wet hands. It may cause an electric shock or fire.
- Do not place heavy objects on the power cable or bend it severely. It may cause a fire.
- Keep the product away from moisture and dust. It may cause an electric shock and fire.
- Please disassemble the product after turning it off. Do not disassemble the product while the power is on. It may cause an electric shock or burn.

Installation Precautions

- Do not install around any heat sources such as radiators, heat registers, or cooking appliances.
- Do not place any magnetic objects around the product. It may damage the data in your HDD. We will not be liable in any way for damages as a consequence of loss or recovery of information in the HDD.
- Do not drop the product or cause it to be subject to severe impact on it. It can cause the product to malfunction.
- Make sure that the product is powered off before any attempt to connect the power and A/V cables.
- Do not alter the product. It can cause a fire and will void the warrantee.

Usage Precautions

- We are not liable for any personal or confidential information stored in the HDD if it is damaged by strong impact or abuse. Customers should back up their data before returning the unit for repair.
- Do not cause any strong impact to the product. The HDD or the product itself can be damage and malfunction.
- Do not connect the cables when the product is on.

Precautions on HDD

- When detaching a HDD which has recently been used, please wait for the unit to cool. A hot HDD can cause a serious burn.

Maintaining the Product

- Never clean the product with furniture wax, benzene or other volatile liquids since they may corrode the cabinet.
- Please clean the product with dry & soft cloth after unplugging the power adapter.
- Do not turn off the product while upgrading firmware (F/W). It may cause malfunction.

Important Safety Instructions

Read these operating instructions carefully before using the unit. Follow the safety instructions on the unit and the applicable safety instructions listed below. Keep these operating instructions handy for future reference.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with manufacturer instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug this apparatus during lightning storms or when unused for a long period of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use with caution when moving the cart/apparatus combination to avoid injury from tip-over.

Battery Safety Information

- Store the batteries in a cool dry place.
- Do not dispose of used batteries in domestic waste. Dispose of batteries at special collection points or return to point of sale if applies.
- Remove the batteries during long periods of non-use. Always remove exhausted batteries from the remote control. Battery leakage and corrosion can damage this remote control, dispose of batteries safely.
- Do not mix old and new batteries.
- Do not mix different types of batteries: alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium).
- Do not dispose of batteries in a fire. The batteries may explode or leak.
- Never short circuit the battery terminals.

European Community Compliance Statement

Class B

This product is herewith confirmed to comply with the requirements set out in the Council Directives on the approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive (EMC) 2004/108/EC, Low Voltage Directive (LVD) 2006/95/EC and Energy-related Products Directive (ErP) 2009/125/EC.

WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

The mark of Crossed-out wheeled bin indicates that this product must not be disposed of with your other household waste. Instead, you need to dispose of the waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. For more information about where to drop off your waste equipment for recycling, please contact your household waste disposal service or the shop where you purchased the product.

FCC Compliance Statement (United States)

FCC Class B Part 15

This device complies with Part 15 of the Federal Communications Commission (FCC) Rules. The FCC ID for this device is L6ARCR10BW. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

CAUTION:

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instructions, may cause interference harmful to radio communications.

There is no guarantee, however, that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or TV technician for help.

ICES-003 (Canada)

"This B digital apparatus complies with Canadian ICES-003.
Cet appareil numerique de la B est conforme a la norme NMB-003 du Canada."

BSMI Registration of Product Certification (Taiwan)

R33183

KCC Class B Statement (Korea)

KCC-REM-AVM-C281

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GOST-R Certification (Russia)

AB29

№ РОСС TW.AB02.B05687
Срок действия
с 13.12.2011 по 12.12.2012
Москва

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Specifications

Product Name	Game Capture HD (HD 錄影盒)
Model No.	C281
Power	
Input Rating	12V⎓1.5A
Power Consumption	< 7W (power consumption of hard drive not included)
Standby Power Consumption	< 1W
Adapter Rating	Input: 100-240V~, 50-60Hz 0.5A Max. Output: 12V⎓1.5A
Dimension	
Size	164 mm(W) x 57 mm (H)x 124 mm (D)
Weight	335 g
Environmental Condition	
Operating Temperature	0~40℃

System Requirements

- TV/monitor with component video (YPrPb) input
- TV/monitor with 720p or 1080i resolution (recommended)
- Game console/video device with component video (YPrPb) output
- NTFS-formatted hard drive with capacity greater than 320 GB is recommended
  (The supported maximum storage capacity of the hard drive is 2TB.)
- Hard drive is highly preferred over flash drive to minimize the risk of recording failure

English

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Thank you for purchasing the **Game Capture HD**. Please read this user manual carefully to ensure proper use of this product. We recommend you to keep it for future reference.

Introduction

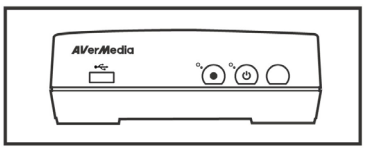
The **Game Capture HD**, a stand-alone video capture box specially designed for TV gamers, allows you to capture HD content up to 1080i from various video game consoles, such as PlayStation®3 and Xbox 360.

The **Game Capture HD** records HD gameplays directly to your hard disk drive (HDD) for later viewing and further editing, eschewing the hassle of setting up a PC nearby your TV set.

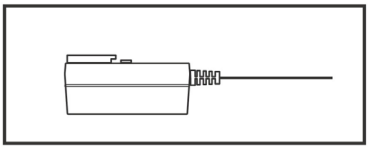
Most attractively, the one-press capture feature allows you to instantly grab high score screen and record your exciting gameplay footage with nearly no effort.

Chapter 1 Package Contents

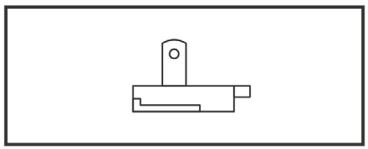
Please confirm that the package contains the following items. If any of the package contents are missing or damaged, please contact the distributor immediately.



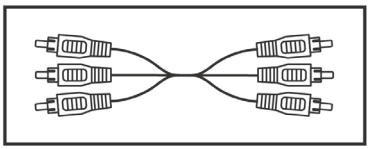
Game Capture HD



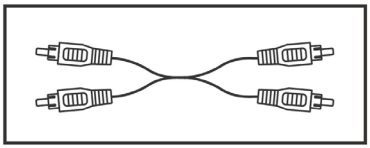
Power Adapter



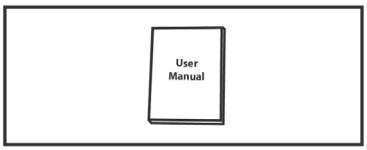
Power Adapter Outlet Module



Component Video Cable



RCA Audio Cable



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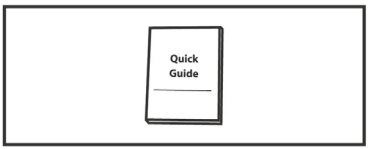
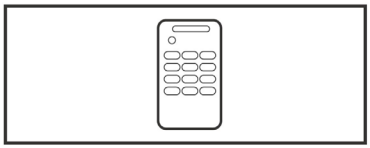
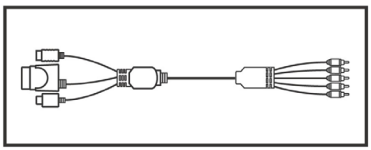


Quick Guide



Remote Control (Batteries Included)



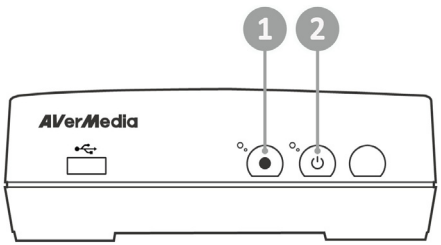
Universal Component Cable for Game Consoles

- The accessories that come with the package may slightly vary depending on different sales regions.
- AVerMedia regularly releases the latest version of firmware for the **Game Capture HD**. Having the latest firmware enhances the functionality of the **Game Capture HD** To download the latest firmware file, please go to /www.avermedia.com and then enter the model name in Product Search field. Firmware file is available on the product information page. (See p.39 for details)

Chapter 2 The Unit Parts

2.1 Touch Button Control Panel

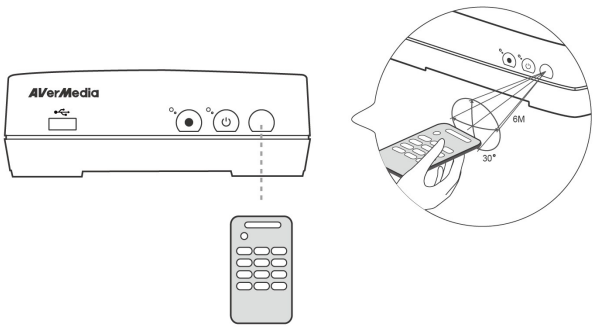
The touch button panel found on the front of the unit provides quick access to commonly used functions



#	Buttons	Descriptions
1		**Record** Press to start / stop recording.
2		**Power** Press to turn the unit on / into stand-by mode.

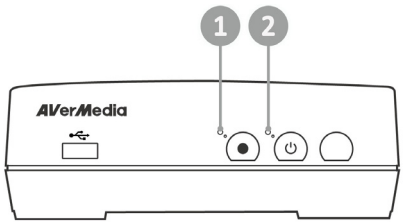
2.2 Infrared Sensor

When using the remote control, aim it at the infrared (IR) sensor located at the front panel of the unit. The remote control must be held at an angle within 30 degrees perpendicular to the IR sensor to function correctly. The distance between the remote control and the sensor should not exceed 6 meters (20 feet).



2.3 LED Indicator

The LED indicators on the front of the unit show the device's status.



1	Red LED indicator	2	Green / Blue LED indicator

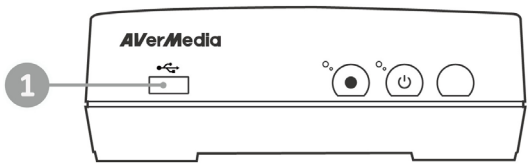
While the device is…	The Green/Blue LED indicator…
On (Standard Mode)	Glows solid green
On (Real-time Mode)	Glows solid blue
Off / in standby mode	Lights off
Starting up / Powering off / Upgrading its firmware	Flashes green continuously
Having problems	Alternates between green and blue
Receiving a remote control signal (Standard Mode)	Flashes green once
Receiving a remote control signal (Real-time Mode)	Flashes blue once

While the device is…	The Red LED indicator…
Under recording mode	Flashes red continuously
Accepting a snapshot command	Flashes red once

For the description on **Standard Mode** and **Real-time Mode**, refer to p.26.

2.4 Connection Ports

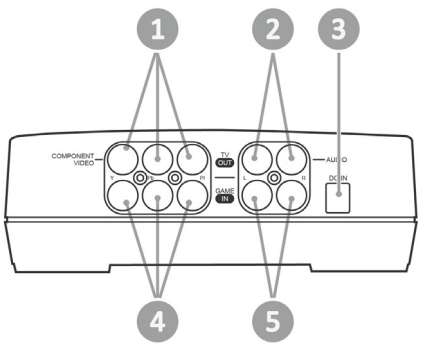
2.4.1 Front View



1	USB slot

- USB slot is for external USB storage device connection as well as for firmware upgrade via USB storage device.
- USB hub is not supported.

2.4.2 Rear View



1	Component video output	4	Component video input
2	RCA Audio L/R output	5	RCA Audio L/R input
3	DC-IN		

Chapter 3 Installation & First Time Setup

3.1 Hardware Installation

Please follow the steps below to properly connect the **Game Capture HD** and your TV / video game consoles.

- The **Game Capture HD** supports one game console connection at a time only. Connecting more than one console to the **Game Capture HD** at the same time may result in video quality issues, even if only one console is on.
- Before making the connections, make sure to set game console's video output to "Component" and adjust its output resolution to 1080i or below. Then power your game console off.
- If you would like to install internal hard drive, install it before making the connections.
- Make sure that the cables are firmly connected and that neither of the cables are loose. If any of the cables are loose or disconnected, there may be a loss of signal or screen color problems.

Step 1
Connecting the Device to Your Game Console Using Universal Component Cable

Universal Component Cable is used to hook up your game console to the **Game Capture HD** at a time.

This cable is composed of component video cable with RCA audio cable at one end and three cables compatible with PS2/3, Xbox and Wii at the other end.

Step 1-1:

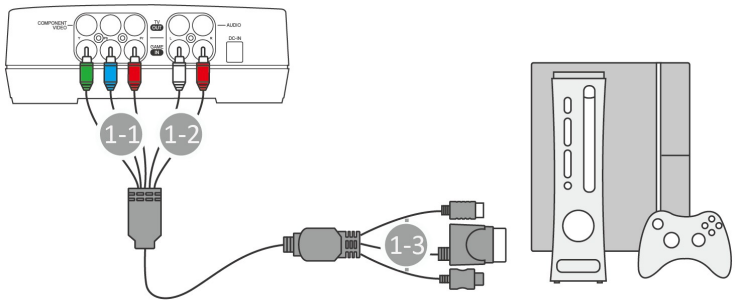
Plug the green, blue, red connectors into the **COMPONENT VIDEO IN** port on the rear of the device.

Step 1-2:

Plug the white and red connectors into the **AUDIO IN** port on the rear of the device.

Step 1-3:

Plug the other end to your game console (choose a console-specific cable).

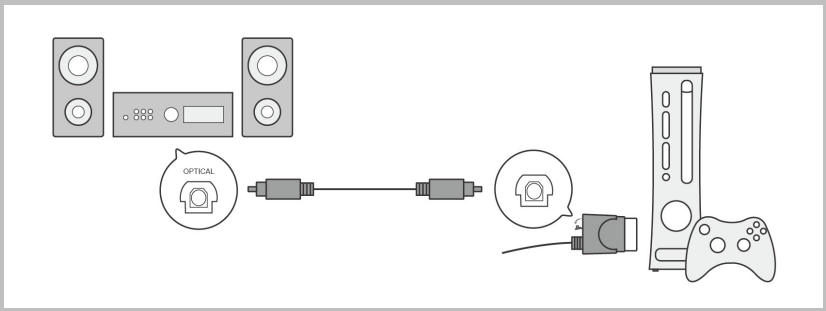


Make sure not to mix up the two red cables.

When connecting with the **Game Capture HD**, your console's audio output settings remain unchanged. If your amplifier or other audio devices support optical digital audio output, you can still output digital audio. Please follow the steps below to make digital audio cable connection and configure the audio output settings.

For Xbox 360:

Step 1
Connect one end of the digital audio cable (not included) to the **DIGITAL AUDIO OUTPUT** port on the Universal Component Cable. Then connect the other end to the **DIGITAL AUDIO INPUT (OPTICAL INPUT)** port on your amplifier or surround system.



Step 2

On your console, go to **Settings > Console Settings > Audio > Digital Output** and select the appropriate digital audio setting for your amplifier or surround system.

For PS3:

Step 1
Connect your console with amplifier or surround system via digital audio cable (not included)

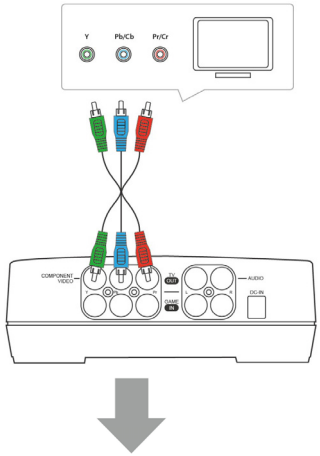
Step 2
On your console, go to **Settings >Sound Settings > Set Audio Output Settings** and select "Optical Digital". Then select "Dolby Digital 5.1 Ch.".

Step 3

On your console, go to **Settings > Sound Settings > Audio Multi-Output** and set the option to "On".

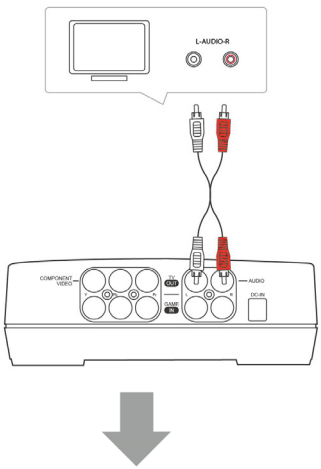
Step 2
Connecting the Device to Your TV Using Component Video Cable

Connect one end of the component video cable to the **COMPONENT VIDEO OUT** port on the rear of the device and the other end to the **COMPONENT VIDEO IN (colored green, blue, and red)** port on your TV.



Step 3
Connecting the Device to Your TV Using Composite Audio Cable

Connect one end of the composite audio cable to the **AUDIO OUT** port on the rear of the device and the other end to the **AUDIO IN (colored white and red)** port on your TV.

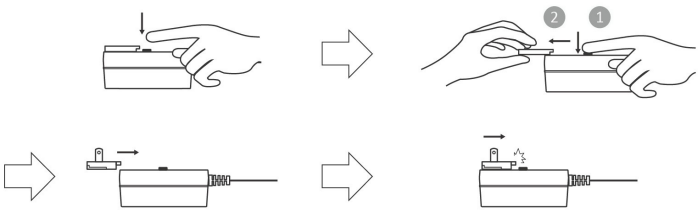


Step 4
Powering on Your Game Console

Power on your game console.

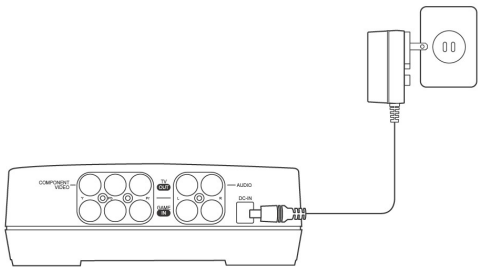
Step 5
Installing the Power Adapter

Slide the Power Adapter Outlet Module into the groove on the Power Adapter.



Step 6
Connecting the Power Adapter

Connect the Power Adapter connector to the **DC-IN** port on the rear of the device. Then plug the power adapter to a wall outlet.



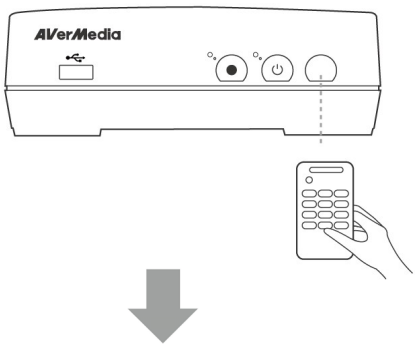
Step 7
Powering on the Game Capture HD

Press the power button on the front panel of the device.

Or

Aim the remote control at the infrared sensor located on the front panel of the device. Then press **Power** on the remote.

The LED indicator then lights up green, indicating that the device is on.



Step 8
Check Video on TV screen

Make sure that there is video displayed on TV screen.

If your TV is not displaying video properly, please check the followings:

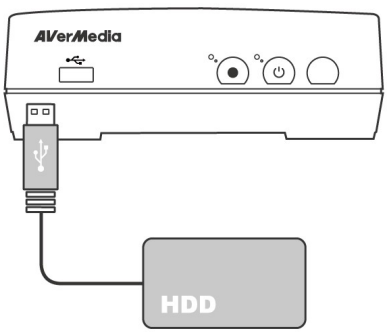
- Make sure that your TV is set on the correct input source (COMPONENT IN). Switch video input by pressing the input selection button ("Input"/"Source"/"TV/AV") on the TV remote control.
  Supported resolutions vary depending on the TV in use. For details, please refer to the documentation that comes with your TV.
- Check video output settings of your game console. If you were using HDMI connection for your game console, reset the video output for your game console (See p.20 for details).
- Power off Game Capture HD and then make sure that the device is connected properly and with the proper cables.
- If there is still no video signal on TV, refer to FAQ section at www.avermedia.com for further troubleshooting.

3.2 Storage Device Installation

The **Game Capture HD** supports 2.5 inch internal hard drive (with both 9.5mm and 12.5mm height) and external USB storage device. You can save the recorded files and snapshots either to the internal HDD or your external USB drive.

3.2.1 USB Storage Device Insertion

Connect your portable USB hard drive to the USB port on the front of the **Game Capture HD**



- It is highly recommended to use a hard drive instead of a flash drive to minimize the risk of recording failure.
- To avoid data loss, please safely remove your external storage device before unplug it from the **Game Capture HD** (See p.32 for details).
- If problems encountered while using USB flash drive to store recordings, refer to FAQ section at www.avermedia.com for further troubleshooting.

3.2.2 HDD Installation and Removal

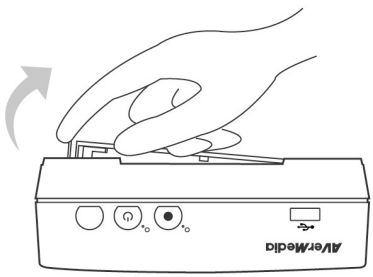
- It is highly recommended to use a new unformatted hard drive or a hard drive formatted as NTFS file system. The maximum supported storage capacity of the hard drive is 2TB.
- Before installing or removing the internal HDD, please disconnect the power supply from the **Game Capture HD** to avoid data loss.
- Removing internal HDD immediately after powering-off may cause personal injury due to heat. Please wait until the HDD cools down completely (it takes approximately 10 minutes) before any attempt to remove it.

To install the internal HDD:

Step 1
Removing the HDD Lid

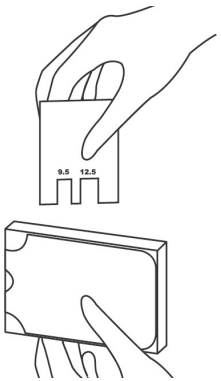
Use your fingertip to flip open the HDD lid, located on the bottom of the **Game Capture HD**.

Lift off the lid and set it aside.



Step 2
Measuring HDD Height Using Measuring Card

Use the measuring card placed on the HDD slot to measure the height of your HDD (9.5mm or 12.5mm).

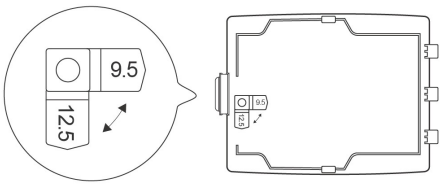


Step 3
Adjusting the Rotary Knob

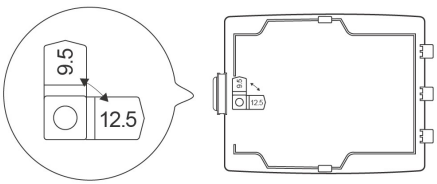
Adjust the rotary knob attached to the inner side of the lid to fit the height of your HDD.

The default position of the rotary knob fits HDD with 9.5mm height. If you use HDD with 12.5mm height, rotate the rotary knob to the other direction.

Using a 9.5mm HDD:

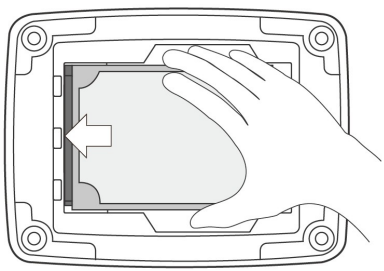


Using a 12.5mm HDD:

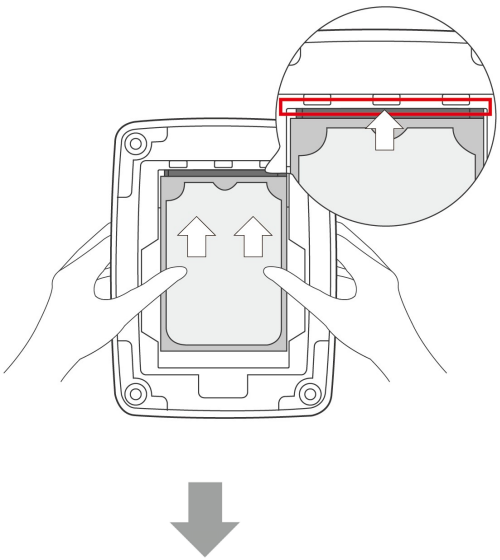


Step 4
Inserting the HDD

Place the HDD on the slot with the sticker-side facing up and the HDD connector end facing to the left.

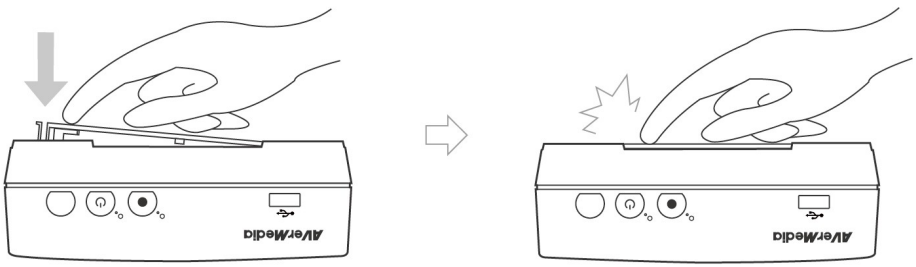


Align and insert the HDD connectors all the way into the SATA connectors attached to the slot. Push in firmly to secure them.



Step 5
Replacing the HDD Lid

Place the HDD lid back and snap it into place.



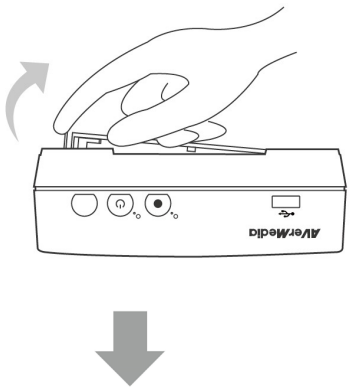
To remove the internal HDD:

Step 1
Removing the HDD Lid

Removing internal HDD immediately after powering-off may cause personal injury due to heat. Please wait until the HDD cools down completely (it takes approximately 10 minutes) before any attempt to remove it.

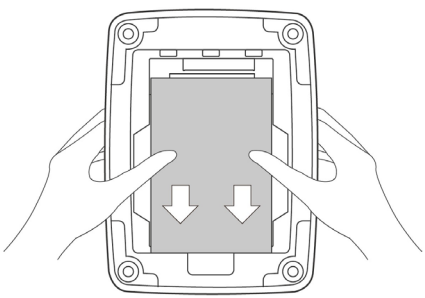
Use your fingertip to flip open the HDD lid, located on the bottom of the **Game Capture HD.**

Lift off the lid and set it aside.



Step 2
Removing the HDD

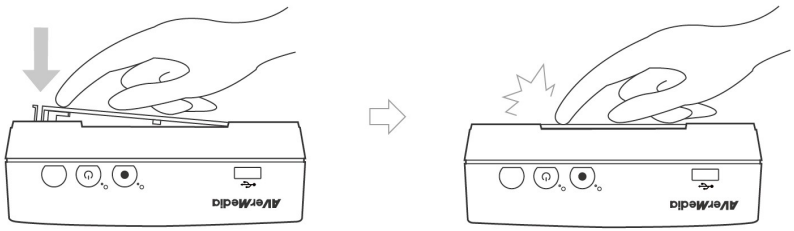
Pull the HDD out in the direction of the arrow. Then lift the HDD out of the slot.



Step 3

Replacing the HDD Lid

Place the HDD lid back and snap it into place.



3.3 Setup Wizard

When the first time you power on the **Game Capture HD** unit, the setup wizard appears. The following steps guide you through the initial configuration process.

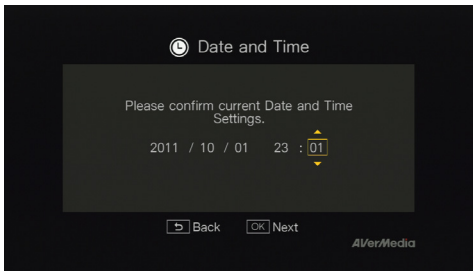
- Make sure to install internal hard drive or external USB storage device beforehand.
- For the first-time initialization, a short duration of black screen (approximately 20 seconds) is followed by AVerMedia logo. The blinking green status light indicates that the **Game Capture HD** is starting up. Please wait until the welcome screen appears.

Step 1
Setting up Language

When the welcome page appears, use ▲/▼ to select your preferred language. Press **OK** to confirm.

Step 2
Setting up Date and Time

Use ◄/► to move among options and ▲/▼ to adjust date and time. Press **OK** to confirm.

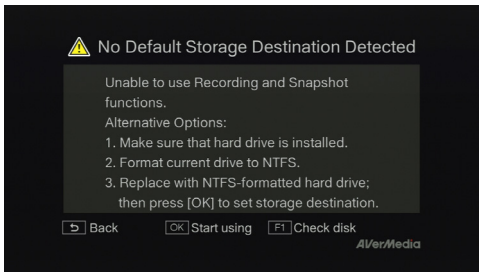


Step 3 (Optional)
Installing Storage Device

If you have not yet installed any storage device, install it before continuing the setup process.

Then press BACK to go to the previous screen and press **OK** to run disk checking process.

If you have already installed your storage device beforehand, jump to **Step 5**.


No Default Storage Destination Detected
Unable to use Recording and Snapshot functions.
Alternative Options:
1. Make sure that hard drive is installed.
2. Format current drive to NTFS.
3. Replace with NTFS-formatted hard drive; then press [OK] to set storage destination.
Back
OK Start using
F1 Check disk
AVerMedia

- Unplug Game Capture HD from the power supply before installing an internal HDD.
- If your hard drive cannot be detected, refer to FAQ at www.avermedia.com for further troubleshooting.

Step 4 (Optional)
Formatting Storage Device

If you are using a new hard drive, a disk format request will be prompted.

Press **OK** to start the disk format process. Once finished, press **OK** to start using **Game Capture HD**.

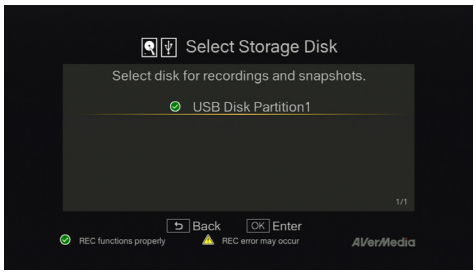
- Disk formatting will remove all the data stored on the disk. Please properly backup your data before formatting the disk.
- NEVER power off the device or unplug the power supply during the disk format process.

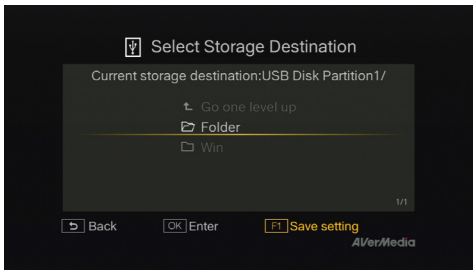
Step 5
Setting up Storage Destination

Use ▲/▼ to select desired default storage disk for both recorded files and snapshots. Press **OK** to select a disk.

* ✅ indicates normal write speed of selected partition; ⚠ indicates low write speed of selected partition. To make sure recording functions properly, be sure to select partition with normal write speed. If you would like to select partition with ⚠ , please format the partition into NTFS. If the problem persists, refer to FAQ at www.avermedia.com for further troubleshooting.

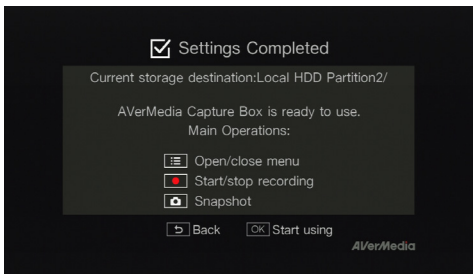
Then use ▲/▼ to select a folder and press **OK** to enter.
Press **F1** to save setting.





Step 6
Finishing Setup Wizard

Press **OK** to exit the wizard and start using **Game Capture HD**. The game screen then appears.



3.4 Supported Resolutions

The **Game Capture HD** supports Component (YPbPr) input resolution:

Component (YPbPr)
480i/576i
480p/576p
720p (50 & 60Hz)
1080i (50 & 60Hz)

3.5 Video Output Settings for Game Consoles

The **Game Capture HD** supports YPbPr input resolution up to 1080i. If you were using HDMI connection for your game console, you need to set the console's video output to 1080i or below.

3.5.1 Video Output Settings for PS3

- Before resetting video output for PS3, make sure to properly connect Game Capture HD with your PS3.
- Leave both the HDMI cable and Universal Component Cable for Game Consoles (or your console specific component cable) plugged in.
- Make sure to power off both the **Game Capture HD** and your PS3 beforehand.
- Supported resolutions vary depending on the TV in use. For details, please refer to the documentation that comes with your TV.

Step 1

Power on your PS3 console.

On your console, go to **Settings > Display Settings > Video Output Settings**.

Video Output Settings
Adjust the video output settings for the Current Output Resolution: 1080i
Video Output Settings
Screensaver
Cross Color Reduction Filter
RGB Full Range (HDMI)
Y Pb/Cb Pr/Cr Super-White (HDMI)
Deep Color Output (HDMI)

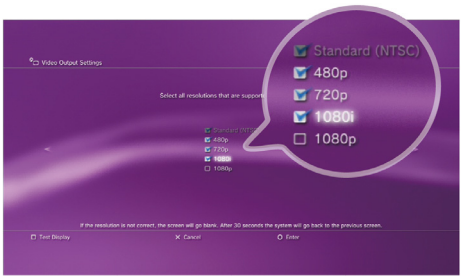
Step 2

Select **Component/D-terminal** and confirm the selection. Then your TV screen goes blank immediately.

Now use your TV remote to switch the TV input source to **Component (YPbPr)**. The screen then comes back on again.

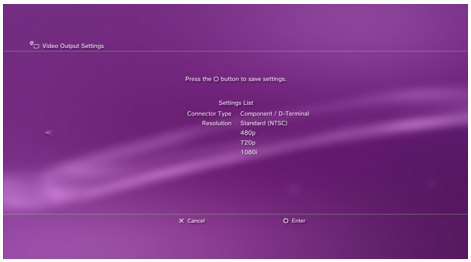
Step 3

Check ALL the resolutions except for 1080p.



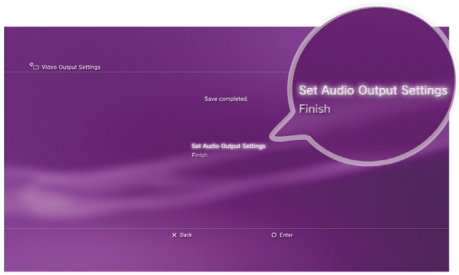
Step 4

Confirm the setting.



Step 5

Select **Set Audio Output Settings**.



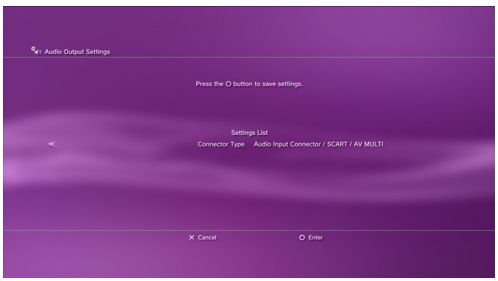
Step 6

Select **Audio Input Connector/SCART/AV MULTI** as audio output.

Audio Output Settings
HDMI
Optical Digital
Audio Input Connector / SC
Select the connector on the TV or AV amplifier (receiver
HDMI
Optical Digital
Audio Input Connector / SCART / AV MULTI
Turn on the power of the connected device.
Cancel

Step 7

Confirm the setting.


Audio Output Settings
Press the O button to save settings.
Settings List
Connector Type Audio Input Connector / SCART / AV MULTI
Cancel
Enter

3.5.2 Video Output Settings for Xbox 360

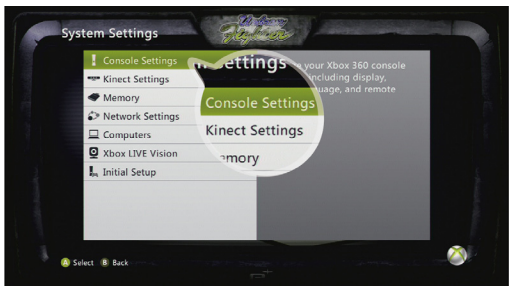
- Before resetting video output for Xbox, make sure to properly connect the **Game Capture HD** with your Xbox.
- Make sure to remove the HDMI cable beforehand, if it was plugged in.
- Make sure to power off both the **Game Capture HD** and your Xbox beforehand.
- Supported resolutions vary depending on the TV in use. For details, please refer to the documentation that comes with your TV.

Step 1

Power on your Xbox console.

On your console, go to My Xbox on the dashboard and scroll all the way to the right to **System Settings**.

Then select **Console Settings > Display > HDTV Settings**.



Step 2

Adjust the output setting to **1080i** or below from the menu list. Select **Yes** to confirm the setting.

For more information concerning console's video output settings, please refer to the setup instruction that comes with your game console.

Chapter 4 The Remote Control

The descriptions below show the deployment of the keys on the remote control.

- On **Real-time** Mode, the remote keys are invalid, except for (mode), (start/stop recording), (stop recording), (snapshot), and (power).
- Press to switch between **Standard Mode** and **Real-time Mode**. (See p.26 for details).

#	Buttons	Descriptions
1		Press to turn the unit on / into stand-by mode. * Stand-by mode: power-saving sleep mode.
2		Press to access the main menu. Press again to exit.
3		Press the navigation keys to move among options. Press **OK** to confirm a selection.
4		Press to play the last recorded file or view the last captured image.
5		Press to start / stop recording.
6		Press to start playing the selected file. Press to play the file at normal (1x) speed when slow motion, rewind, or fast-forward is active.
7		Press to stop the playback. Press to stop the recording.
8		Press to rewind (2x, 4x, 8x, 16x, 32x).
9		Press to return to the previous page.
10		Press to display the video/snapshot quality adjustment screen. Press again to exit.
11		(Follow the on-screen instruction)
12		(Follow the on-screen instruction)
13		(Follow the on-screen instruction)
14		Press to switch between **Real-time Mode** and **Standard Mode** during gameplay (See p.26 for details).
15		Press to display the on-screen information.
16		Press to exit the current page and return to the previous page.
17		Press to take a snapshot during gameplay or video playback.

18		Press to pause the playback. Press **OK** or ▶ to resume playback.
19		Press to play the video in slow motion (1/2x). Press again to enter frame-by-frame mode (See p.27 for details).
20		Press to fast-forward (2x, 4x, 8x, 16x, 32x).
21		Press to go to the next page.
22		Press to delete the selected files.
23		Press to display the disk information. Press again to hide it.

Chapter 5 Gameplay Capture

This chapter guides you to record gameplay, capture images, and instantly play files.

5.1 Live Preview Screen (Standard Mode & Real-time Mode)

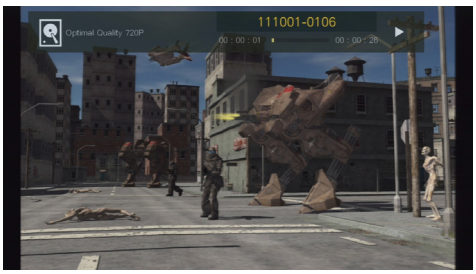
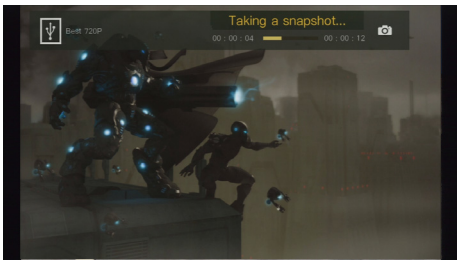
Every time you power on the **Game Capture HD**, **Standard Mode** is set as default. If you would like to switch to **Real-time Mode**, press . To switch back to **Standard Mode**, press again.

On **Standard Mode**, you can press to bring up the menu while playing game with unnoticeable 0.1 second of lag.

On **Real-time Mode**, both the menu and on-screen information are disabled while the gameplay is displayed in real-time. On this mode, only recording and snapshot functions are available.

- Recording and snapshot functions are only available if the storage device is properly installed.
- To change the storage destination, please go to **Menu > Settings > Disk Management > Storage Destination** (See p.38 for details).
- Recording is real-time on both modes. If there is any lag, refer to FAQ at www.avermedia.com for further troubleshooting.

5.2 Gameplay Capture on Standard Mode

OSD Menu	Descriptions
	Instant Recording During Gameplay - Press ● to activate instant recording. - Press ● again or STOP ■ to stop recording.
	Quick Snapshot During Gameplay - Press 📷 to capture current image.
	**Instant Playback** - Press RECALL to play the last recorded file or view the last captured image. - Press STOP ■ to stop the playback.
	**Image Capture During Video Playback** **Way 1:** - Press 📷 to capture current image. **Way 2:** Step 1: - Press SLOW to play the video in slow motion (1/2x). Press SLOW again to view the video frame by frame.

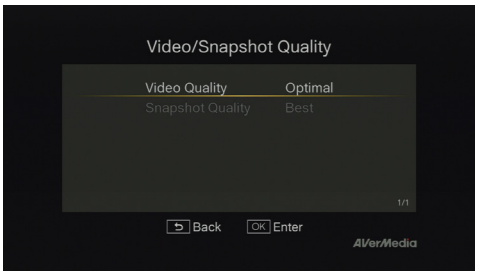
or

- Press ⏸ to pause the playback. Press PAGE- ⏮ to go to previous frame; press PAGE+ ⏭ to go to next frame.

Step 2:

- Press 📷 to capture your desired image.

Video / Snapshot Quality Adjustment



Step 1:

Press QUALITY ★ to display the video/snapshot quality adjustment screen.

Step 2:

Use ▲/▼ to select “Video Quality” or “Snapshot Quality” and press **OK**.

Step 3:

Use ▲/▼ to select desired option and press **OK** to confirm.

Step 4:

Press BACK ↩ to exit.

Disk Information

- Press DISK INFO 💿 to display the disk information. Press again to hide it.

Main menu

- Press MENU ☰ to call up the main menu.
- Press MENU ☰ or BACK ↩ to return to the game screen.

5.3 Gameplay Capture on Real-time Mode

OSD Menu	Descriptions
	Instant Recording During Gameplay - Press ● to activate instant recording - Press ● again or STOP ■ to stop recording.
	Quick Snapshot During Gameplay - Press 📷 to capture current image.

Chapter 6 The OSD Menu Display

Under the menu, you can check and manage both your recorded files and snapshots, and customize your preferences.

Under **Real-time** mode, the OSD menu display is not available. To call up the menu, press 🔗 to switch back to **Standard** Mode and then press MENU.

OSD Menu	Descriptions
	Basic Operation - Press MENU to bring up the menu. - Press MENU or BACK to return to the game screen. - Use ▲/▼ to make selection on the menu and **OK** to enter a submenu.

- In the submenu, use ▲/▼ to make selection and **OK** to confirm. Press BACK to return to the previous page.

6.1 Recordings and Snapshots

You can check both recordings and snapshots captured by the **Game Capture HD** in "Recordings and Snapshots".

Capture Format:

Video	AVI (Codec: H.264 format with MP3 audio)
Image	JPEG

To convert captured videos from AVI to MP4 (Codec: H.264 format with MP3 audio) for editing, please go to http://www.avermedia.com and download "MP4 Converter" from "AP & Driver" section on the product information page.

OSD Menu

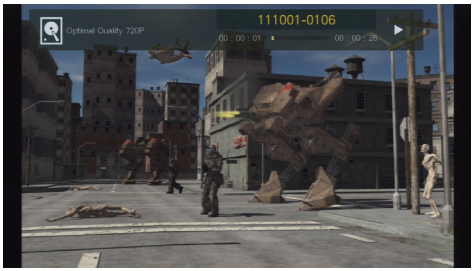
Descriptions

Navigating

- Use the navigation keys ◄/►/▲/▼ to select among items.
- Press **F1** to sort the files by file name, file size, or file format.
- Press **F2** to switch between list mode and thumbnail mode.
- Press PAGE+ to go to the next page.
- Press PAGE- return to the previous page.
- Press MENU to directly access the main menu.

Video Playback

- Press ▶ or **OK** to start playing the selected video.
- Press ⏸ or **OK** to pause the playback.
  Press ▶ or **OK** to resume playback.
- Press SLOW to play the video in slow motion



(1/2x).

- Press REW to rewind at 2x, 4x, 8x, 16x, 32x speed.
- Press FF to fast forward at 2x, 4x, 8x, 16x, 32x speed.
- Press ▶ to play the file at normal (1x) speed when slow motion, rewind, or fast-forward is active.
- Press STOP to stop the playback.
- Press INFO to display the playback information, including storage disk, recording resolution, duration, elapsed and remaining time, and file name.

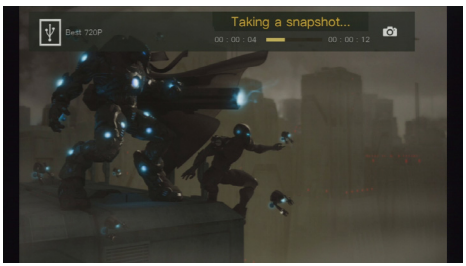


Image Capture During Video Playback

Way 1:

- Press 📷 to pause and capture current image.
- Press ▶ or **OK** to resume playback.

Way 2:

Step 1:

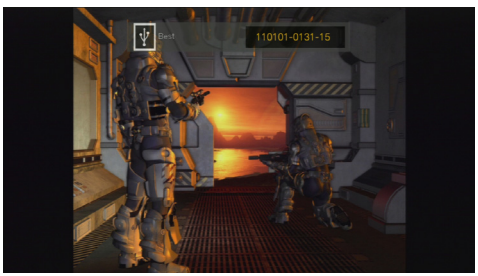
- Press SLOW to play the video in slow motion (1/2x). Press SLOW again to view the video frame by frame.

or

- Press ⏸ to pause the playback. Press PAGE- to go to previous frame; press PAGE+ to go to next frame.

Step 2:

- Press 📷 to capture your desired image.



Snapshots Viewing

- Press ▶ or **OK** to view the selected image. Press STOP return.
- Press INFO to display the image information, including storage disk and file name.

USB Storage Device Removal

In order to avoid data loss, it is highly recommended to safely remove your external storage device. Please follow the steps below:

Step 1:

Press DISK INFO on the remote control.

Step 2:

Select the partition.

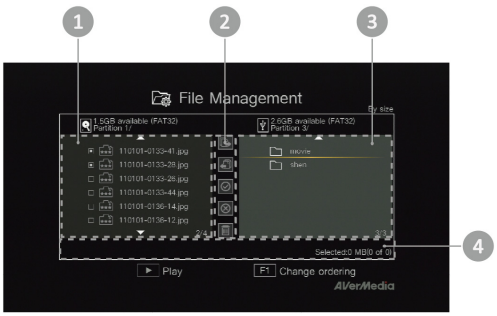
Step 3:

Press **F2** to remove it.

6.2 File Management

"File Management" allows you to manage videos and images captured by the **Game Capture HD.** You can copy files between internal hard drive and external USB storage device, and delete unwanted files. Please note that only video and image files captured by the **Game Capture HD** are supported. Before entering this submenu, insert your storage device first (USB 2.0 storage device / 2.5" HDD in NTFS format).

File Management User interface:



1 A list displaying files located on the **internal hard disk**

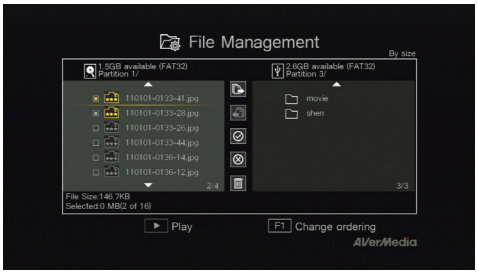
2 A set of editing tools

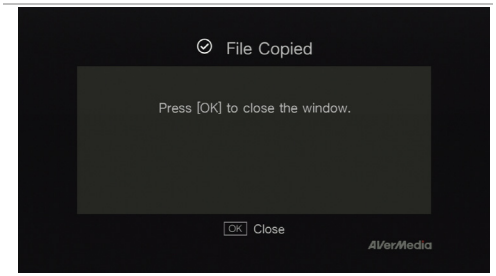
3 A list displaying files located on the **USB disk**

4 Information display area

Descriptions on Editing Tools:

#	Buttons	Descriptions
1		Copy files to USB disk
2		Copy files to internal hard disk
3		Select all
4		Deselect all
5		Delete

OSD Menu	Descriptions
	Navigating - Use ▲/▼ to select and **OK** to enter the folder in which you save the recordings and snapshots. - Use ▲/▼ to select “Back” and press **OK** to go one level up. - Press **F1** to sort the files by file name, file size, or file type. - Press PAGE+ to go to the next page. - Press PAGE- return to the previous page. - Press MENU to directly access the main menu.
	**Copying Files from Internal HDD to USB Disk** Step 1: - On the left-side list, use ▲/▼ to highlight the file that you want to copy to USB disk. Press **OK** to select / unselect an item. - Select and press **OK** to select all files.



- Select and press **OK** to deselect all files.

Step 2:

- Select and press **OK** to copy selected file(s) to USB disk.
- Press BACK to cancel copying the files in a progress.

Step 3:

- Press **OK**.

Copying Files from USB Disk to Internal HDD

Step 1:

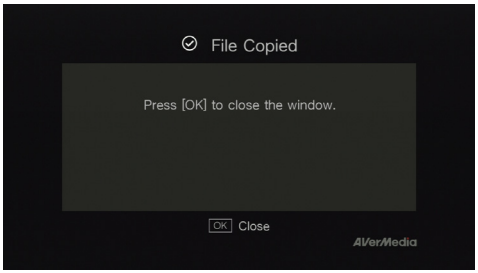
- On the right-side list, use ▲/▼ to highlight the file that you want to copy to internal HDD. Press **OK** to select / unselect an item.
- Select and press **OK** to select all files.
- Select and press **OK** to deselect all files.

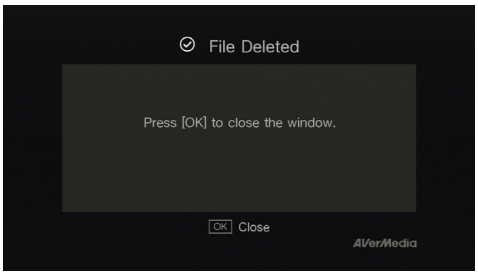
Step 2:

- Select and press **OK** to copy selected file(s) to internal HDD.
- Press BACK to cancel copying the files in a progress.

Step 3:

- Press **OK**.





Deleting Files

Step 1:

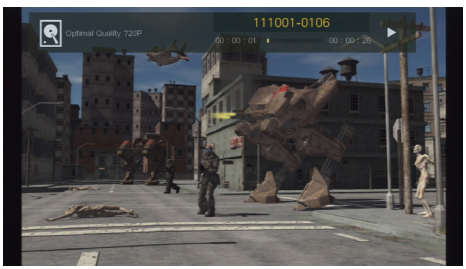
- Use ▲/▼ to highlight the file(s) that you want to delete. Press **OK** to select/unselect an item.
- Select and press **OK** to select all files.
- Select and press **OK** to deselect all files.

Step 2:

- Select and press **OK** to remove the file from the list.
  or
  Press on the remote and then press **OK** to remove the file from the list.
- Press BACK to cancel deleting the files in a progress.

Step 3:

- Press **OK**.



File Playback

- Press or **OK** to start playing the highlighted file.
- Press or **OK** to pause the playback.
  Press or **OK** to resume playback.
- Press SLOW to play the video in slow motion (1/2x).
- Press REW to rewind at 2x, 4x, 8x, 16x, 32x speed.
- Press FF to fast forward at 2x, 4x, 8x, 16x, 32x speed.
- Press to play the file at normal (1x) speed when slow motion / rewind / fast-forward is active.
- Press STOP to stop the playback.
- Press INFO to display the playback

information, including storage disk, recording resolution, duration, elapsed and remaining time, and file name.

USB Storage Device Removal

In order to avoid data loss, it is highly recommended to safely remove your external storage device. Please follow the steps below:

Step 1:

Press DISK INFO on the remote control.

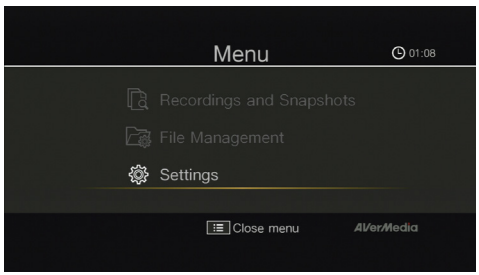
Step 2:

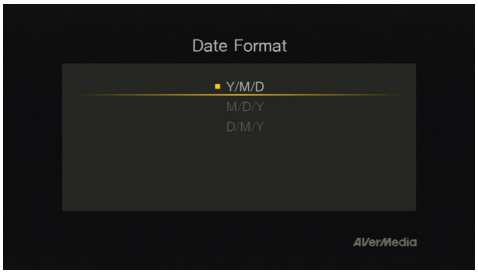
Press **F2** to remove it.

A single file size that exceeds 4GB is not allowed to be copied from NTFS-formatted HDD to FAT32-formatted USB storage device. To solve this problem, please format your USB storage device to NTFS file system or use a NTFS formatted USB storage device.

6.3 Settings

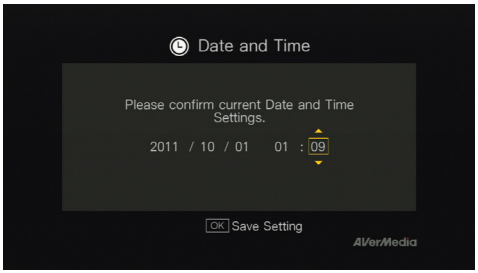
You can customize your preferences in “Settings”.

OSD Menu	Descriptions
	**Basic Operation** - Use ▲/▼ to select a preferred category. Press **OK** to make a selection. - Press BACK to return to the previous page. Press MENU to directly access the main menu.
	Language Use ▲/▼ to select your preferred language. Press **OK** to confirm.



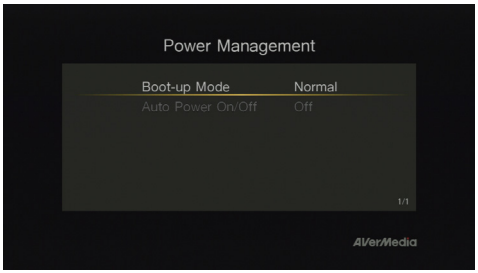
Date Format

Use ▲/▼ to select date format. Press **OK** to confirm.



Date and Time

Use ◄/► to move among options and ▲/▼ to adjust date and time. Press **OK** to confirm.



Power Management

Boot-up Mode

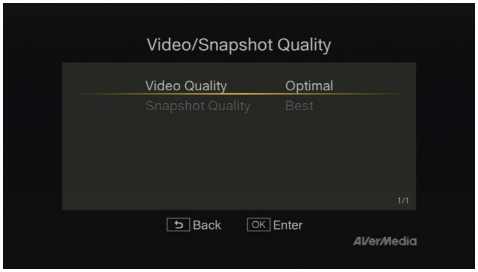
Use ▲/▼ to switch between different boot-up modes (Normal/Fast). Press **OK** to confirm.

*Fast Mode speeds up the boot time, though more electricity is consumed.

Auto Power On/Off

Use ▲/▼ to set the device to auto-power on or off. Press **OK** to confirm.

* Auto-power off:
the device auto powers off when the signal input is unavailable for 10 minutes. The device auto powers on when the signal input is back on.



Video/Snapshot Quality

Video Quality:

Use ▲/▼ to toggle among various video quality options (Optimal/Good/ Maximum recording length). Press **OK** to confirm.

Snapshot Quality:

Use ▲/▼ to toggle among various snapshot quality options (Best/Better/Good). Press **OK** to confirm.

Estimated recording duration for different video quality settings:

HD (1080i)

Video Quality / Storage Capacity	Optimal (15 Mbps)	Good (12 Mbps)	Maximum Recording Length (10 Mbps)
1TB	125 hrs	150 hrs	200 hrs
2TB	250 hrs	300 hrs	400 hrs

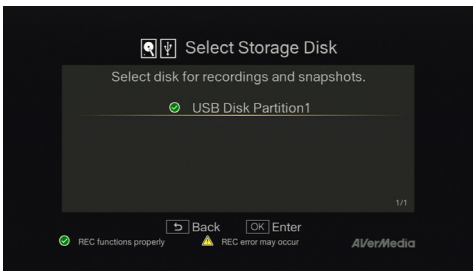
HD (720p)

Video Quality / Storage Capacity	Optimal (12 Mbps)	Good (10 Mbps)	Maximum Recording Length (8 Mbps)
1TB	150 hrs	200 hrs	250 hrs
2TB	300 hrs	400 hrs	500 hrs

SD 480i(576i)/480P(576P)

Video Quality / Storage Capacity	Optimal (7.5 Mbps)	Good (5 Mbps)	Maximum Recording Length (3 Mbps)
1TB	250 hrs	400 hrs	650 hrs
2TB	500 hrs	800 hrs	1300 hrs

*Recordings with higher video quality take up more disk space.



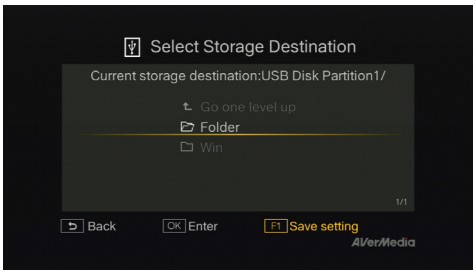
Disk Management

Storage Destination

Step 1:

Use ▲/▼ to select desired default storage disk for both recorded files and snapshots. Press **OK** to select a disk.

* ✓ indicates normal write speed of selected partition; ⚠ indicates low write speed of selected partition. To make sure recording functions properly, be sure to select partition with normal write speed.



Step 2:

Use ▲/▼ to select a folder and press **OK** to confirm.

Step 3:
Press **F1** to save the setting.

Disk Information

This page displays the status of storage capacity of the disk.
Press **F1** to start formatting the disk.
Press **F2** to eject the disk.

Firmware Upgrade

Follow the steps below to upgrade the firmware via USB storage device:

Step 1:

To download the latest firmware binary package, please go to www.avermedia.com, and then enter the model name in Product Search field. Firmware file is available on the product information page.

Step 2:

Extract the files by unzipping the package. Copy the firmware files to the root directory of your USB storage device, and then connect it to the **Game Capture HD**.

Step 3:

Press **F1** to start the firmware upgrade process. Press BACK ⮌ to abort the operation and return to the previous page.

Step 4:

The **Game Capture HD** automatically detects whether a newer version of firmware is available for upgrade. Once the firmware

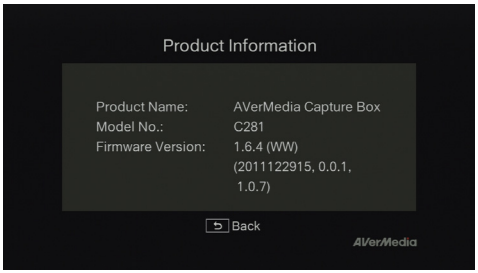
upgrade process has completed, press **OK** to restart the **Game Capture HD**.

- The firmware upgrade process takes up approximately 3-5 minutes.
- Firmware upgrade requires at least 256MB free space of the storage device (USB/HDD).
- If problems encountered during firmware upgrade, please clear all the data stored on your USB storage device and repeat the process above.
- NEVER power off the device or unplug the power supply during the firmware upgrade process. If the firmware upgrade is interrupted for any reason, the device may crash.

Restore to Factory Default
This will restore AVerMedia Capture Box to the default factory settings.
Press [F1] to start restoring.
Once the restore process has completed, the device will restart and run Setup Wizard.
F1 Restore
AVerMedia

Restore to Factory Settings

Press **F1** to restore to original factory settings. Press BACK to abort the operation and return to the previous page.



Product Information

This page provides information about this product, including product name, model no., and firmware version.

Appendix A How to Set Your Gameplay Snapshot as PS3 Wallpaper

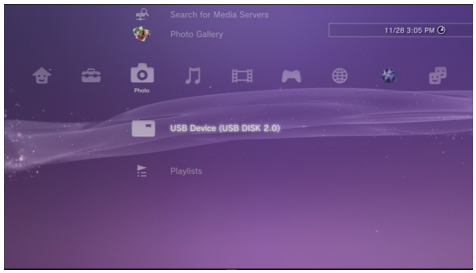
Start to give your PS3 menu screen a fresh and personalized look to show how cool you are! Please follow the steps below to set the image captured by the **Game Capture HD** as your PS3 background wallpaper.

Step 1

Remove your USB storage device from the **Game Capture HD**, and then plug it into your PS3 console via USB port. Power on your PS3 console.

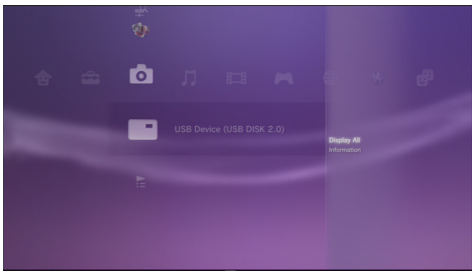
Step 2

On your console, go to **Photo > USB Device**.



Step 3

Press the triangle button on your PS3 controller and select “Display All”.



Step 4

Select the image that you wish to use.

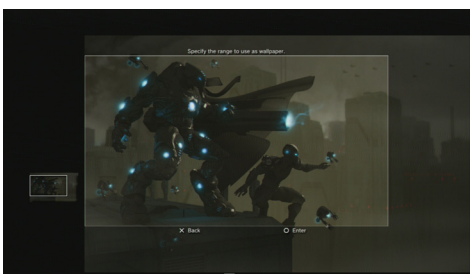
Step 5

Press the Triangle button on your PS3 controller to bring up control panel.

Then scroll to the right and select “Set as Wallpaper”.

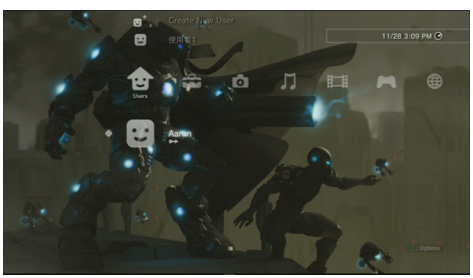
Step 6

Use the right joystick to zoom in/out and left joystick to frame the image. When it is the proper size, press ○ (Enter).
Confirm with ○ (Enter) if you are prompted to overwrite your current wallpaper.



Step 7

Done! The snapshot that you have chosen is now set as your PS3 wallpaper.



On your PS3 console, you can go to **Settings > Theme Settings > Background** to turn wallpaper on or off.

Open Source Code Notice

The following GPL executables and LGPL, MPL libraries used in this product are subject to the BSD/FreeBSD/ GPL/GPLv2/GPLv2+/GPLv3 with GCC/ RLE/jpeg/LGPLv2/LGPLv2.1/LGPLv2.1/ GPLv2/LGPLv2.1+/LGPLv2+/ libpng/MIT/NewBSD/OPENSSL/PD/zlib License Agreements:

BSD

cppstub/db/libpcre0

FreeBSD

thttpd

GPL

makedevs

GPLv2

busybox/dbus/dbus-x11/devmem2/dosfstools/fbset/i2c-tools/iproute2/libblkid1/libdbus-1-3/ libfreetype6/libpam/libuuid1/linux-kernel/module-init-tools/module-init-tools-depmod/mtd-utils/ netbase/u-boot/update-modules/usbutils/util-linux-ng

GPLv2+

iptables/sysvinit/tinylogin/udev/update-rc.d

GPLv3 with GCC RLE

libgcc1/libstdc++6

jpeg

libjpeg8/libjpeg-tools

LGPLv2

libts-1.0-0/tslib

LGPLv2.1

libav/libusb-1.0-0

LGPLv2.1/GPLv2

Alsa

LGPLv2.1+

ldd/libc6/libthread-db1

LGPLv2+

libglib-2.0-0

libpng

libpng12-0

MIT

curl/e2fsprogs/fbset-modes/graphmagic/libcom-err2/libcurl4/libe2p2/libexpat1/libext2fs2/libformw/ libmenuw/libpanelw5/libss2/libtic5/libtinfo5/libxml2/ncurses/pointercal

NewBSD

iperf

OPENSSL

openssl

PD

modutils-initscripts

zlib

libz1

AVerMedia Technologies Inc. offers to provide source code to you for a charge covering the cost of performing such distribution, such as the cost of media, shipping and handling upon e-mail request to AVerMedia Technologies Inc. at http://www.avermedia.com
For more information, please visit our website:
http://www.avermedia.com/avertv/Product/ProductDetail.aspx?Id=556&tab=UserManual